

TTC Wärtsilä JOVYSTAR OCEAN

PRODUCT LEAFLET



UPS systems of the TTC Wärtsilä JOVYSTAR OCEAN series offer optimal protection for critical consumer loads on board of vessels and are available with a power range of 5 up to 200 kVA. The systems use the online mode (double converter technology VFI-SS-111) and are manufactured due to customers' requirements and in accordance with the respective class of vessel. The robust three-phase or single-phase UPS systems TTC Wärtsilä JOVYSTAR OCEAN are especially suitable to secure navigation, radio, communication, lighting etc. on board.

ONLINE UPS SYSTEM

As online systems (double converter technology) TTC Wärtsilä JOVYSTAR OCEAN UPS systems protect against system interferences and failures of any kind in a secure and economic way.

RELIABLE ON BOARD TECHNOLOGY

UPS Systems of the TTC Wärtsilä JOVYSTAR OCEAN series are available with a performance range of 5 up to 30 kVA (3-ph. input/ 1-ph. output) or 5 up to 200 kVA (3-ph. input/output). The micro-process-driven monitoring of the inverter, rectifier and static bypass as well as of the battery guarantee the high operational safety of our vessel UPS systems. Automatic fault memory enables the precise localisation of the failure even at a later date. A built-in RS

232 interface offers the possibility of remote maintenance or error analysis via satellite or cell phone. The standard RS 485 interface enables a connection to an optionally available remote display. Also optional is the SNMP-capable surveillance software for installation on the PC network on board.

INDIVIDUALLY CUSTOM-BUILT

Each vessel UPS system is individually manufactured for the respective class of vessel and in accordance with the consumer loads to be supplied. We use only robust steel sheet cabinets approved by the classification society. Installing the electronics we ensure easy to service assembly of the structural components. All structural components are accessible via the front and can be exchanged in just a few moves in order to reduce maintenance costs.

TYPES TTC Wärtsilä JOVYSTAR OCEAN

	Power [kVA]	Phases	UPS System Dimensions [mm] W X H X D	Battery cabinet Dimensions [mm] W X H X D]	Autonomy times [min]
TTC Wärtsilä JOVYSTAR OCEAN 3/1	5 - 30	3:1	800 x 1970 x 800	600 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	5 - 30	3:3	800 x 1970 x 800	600 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	40	3:3	800 x 1970 x 800	600 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	60	3:3	800 x 1970 x 800	1200 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	80	3:3	800 x 1970 x 800	1200 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	100	3:3	800 x 1970 x 800	1800 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	120	3:3	1200 x 1970 x 800	1800 x 2170 x 800	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	150	3:3	1200 x 1970 x 800	2400 x 2170 x 1000	30
TTC Wärtsilä JOVYSTAR OCEAN 3/3	200	3:3	1200 x 1970 x 800	3000 x 2170 x 1000	30

further autonomy times on request

TECHNICAL DATA

The technical data of our vessel UPS systems TTC Wärtsilä JOVYSTAR OCEAN are custom specific and adaptable to the individual needs and different ship types.

	TTC Wärtsilä JOVYSTAR OCEAN	TTC Wärtsilä JOVYSTAR OCEAN
Power	5 - 30 kVA	5 - 200 kVA
INPUT		
Voltage	according to customer request	
Phases	single-phase (3:1)	three phases (3:3)
Frequency	50 Hz / 60 Hz ± 5 Hz	
Efficiency	>0,99	
Distortion	<4 % (PFC)	
OUTPUT		
Voltage	according to customer request	
Frequency	50 Hz (60 Hz)	
Power factor	cos phi = 0,9 inductive	
THDI	< 2% linear load < 5% non-linear load at 75% NP	
DC Voltage	720 V (2 x 360 V)	
Short time load	125 % for 10 min. 200 % for 100 ms, 1000 % for 1 period via bypass	
Crest Factor	3:1	
SETTINGS		
Protection degree	IP 23 further protection classes on request	
Classification	VFI SS 111	
Temperature	UPS System: 0°C up to +45°C Battery: 0°C up to +25°C; optimal +20 °C	
Humidity	< 95 % (without condensation)	
Radio Interference	acc EN 50091-2, class „A“	

COMMUNICATION

All system data can be accessed via an RS 232 / USB interface. An RS485 interface is useable for remote control - optional system data can be transmitted via SNMP adapter or Modbus adapter, Profibus, etc.

CLASSIFICATIONS

Classifications according to DNVGL, Lloyds Register of Shipping, American Bureau of Shipping, Bureau Veritas, R.I.N.A. and further more

- **ONLINE UPS SYSTEM**
VFI /Double Converter Technology offers maximum safety for connected consumer loads
- **CUSTOMER SPECIFIC CONSTRUCTION ACCORDING TO SHIP CLASSIFICATION**
All Classifications possible
- **COMFORTABLE OPERATION**
and simple service
- **INTERFACES**
RS 232 AND RS 485
for monitoring of all system data/ remote monitoring
- **VIBRATION PROOF**
robust assembly and shock-resistant
- **DUAL SUPPLY**
of MSB and ESB

Fig. 1 TTC Wärtsilä JOVYSTAR OCEAN

